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Phase separation and locally induced states in manganites

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Abstract

© 2017 Taylor & Francis Group, LLC. Local charged states have been induced at the surface of lanthanum strontium manganite single crystals as a result of the local bias application by a conducting tip of atomic force microscope. These results show the dependence of the surface potential of induced area on the writing time similar to that for ferroelectrics. Phenomenon of phase separation with charge segregation is considered for low-doped manganites. It indicates the tendency of manganites toward charge segregation stimulated by the magnetic ordering.

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Keywords

Locally induced states, low-doped manganites, phase separation

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